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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 6

**Complete If Known**

Application Number	10/027,400
Filing Date	December 19, 2001
First Named Inventor	Lewis Thomas Williams
Group Art Unit	1646
Examiner Name	Unassigned
Attorney Docket Number	02307K-026726US

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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
<i>JS</i>	AA	4,766,073		Murray et al.	08/1988	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
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	AB		0 325 224		EPO	07/1989		
	AC		0 327 369		EPO	08/1989		
	AD		90/10013		PCT	09/1990		

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AE	ANDERSON et al., "Binding of SH2 Domains of Phospholipase C $\gamma$ 1, GAP, and Src to Activated Growth Factor Receptors," <i>Science</i> , 250:979-982 (1990).	
	AF	BELL, et al., "Effect of Platelet Factors on Migration of Cultured Bovine Aortic Endothelial and Smooth Muscle Cells," <i>Circulation Research</i> , 65(4):1057-1065.	
	AG	BETSHOLTZ et al., "Coexpression of a PDGF-like Growth Factor and PDGF Receptor: In Human Osteosarcoma Cell Line: Implications for Autocrine Receptor Activation," <i>Cell</i> , 39:447-457 (1984).	
	AH	BISHAYEE et al., "Ligand-Induced Dimerization of the Platelet-derived Growth Factor Receptor," <i>J. Biol. Chem.</i> , 264(20):11699-11705 (1989).	
	AI	CLAESSON-WELSH et al., "cDNA cloning and expression of a human platelet-derived growth factor (PDGF) receptor specific for B-chain-containing PDGF Molecules," <i>Mol. Cell. Biol.</i> , 8(8):3476-3486 (1988).	
	AJ	CLAESSON-WELSH et al., "cDNA cloning and expression of the human A-type platelet-derived growth factor (PDGF) receptor establishes structural similarity to the B-type PDGF receptor," <i>Proc. Natl. Acad. Sci. USA</i> , 86:4917-4921 (1989).	
	AK	COUGHLIN et al., "Role of Phosphatidylinositol Kinase in PDGF Receptor Signal Transduction," <i>Science</i> , 243:1191-1194 (1989).	
	AL	DANIEL et al., "Purification of the platelet-derived growth factor receptor by using an anti-phosphotyrosine antibody," <i>Proc. Natl. Acad. Sci. USA</i> , 82:2684-2687 (1985).	
	AM	DANIEL et al., "Biosynthetic and Glycosylation Studies of Cell Surface Platelet Derived Growth Factor Receptors," <i>J. Biol. Chem.</i> , 262(20):9778-9784 (1987).	

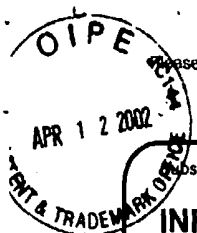
Examiner Signature	<i>James H. Adams</i>	Date Considered	<i>11/08/2001</i>
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Sheet 2 of 6

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Application Number	10/027,400
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Group Art Unit	1646
Examiner Name	Unassigned
Attorney Docket Number	02307K-026726US

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JS	AN				ESCOBEDO et al., "Role of Tyrosine Kinase and Membrane-Spanning Domains in Signal Transduction by the Platelet-Derived Growth Factor Receptor," <i>Mol. Cell Biol.</i> , 8(12):5126-5131 (1988).			
	AO				ESCOBEDO et al., "Platelet-derived Growth Factor Receptors Expressed by cDNA Transfection Couple to a Diverse Group of Cellular Responses Associated With Cell Proliferation," <i>J. Biol. Chem.</i> , 263(3):1482-1487 (1988).			
	AP				ESCOBEDO et al., "A PDGF Receptor Domain Essential For Mitogenesis But Not For Many Other Responses to PDGF," <i>Nature</i> , 335:85-87 (1988).			
	AQ				ESCOBEDO et al., "A Common PDGF Receptor Is Activated By Homodimeric A and B Forms of PDGF," <i>Science</i> , 240:1532-1534 (1988).			
	AR				ESCOBEDO et al., "A Phosphatidylinositol-3 Kinase Binds to Platelet-Derived Growth Factor Receptors Through a Specific Receptor Sequence Containing Phosphotyrosine," <i>Molecular and Cellular Biology</i> , 11:1125-1132 (1991).			
	AS				FANTL et al., "Mutations of the Platelet-Derived Growth Factor Receptor that Cause a Loss of Ligand-Induced Conformational Change, Subtle Changes in Kinase Activity, and Impaired Ability to Stimulate DNS Synthesis," <i>Mol. Cell Biol.</i> , 9(10):4473-4478 (1989).			
	AT				FELDER et al., "Kinase Activity Controls the Sorting of the Epidermal Growth Factor Receptor Within the Multivesicular Body," <i>Cell</i> , 61:623-634 (1990).			
	AU				GIESE et al., "The Role of Individual Cysteine Residues in the Structure and Function of the v-sis Gene Product," <i>Science</i> , 236:1315-1318 (1987).			
	AV				GLENN et al., "Platelet-derived Growth Factor," <i>J. Biol. Chem.</i> , 257(9):5172-5172 (1982).			
	AW				GRAVES et al., "Evidence that a Human Osteosarcoma Cell Line Which Secretes a Mitogen Similar to Platelet-Derived Growth Factor Requires Growth Factors Present In Platelet-Poor Plasma," <i>Cancer Research</i> 43:83-87 (1983).			
	AX				GRONWALD et al., "Cloning and expression of a cDNA coding for the human platelet-derived growth factor receptor: Evidence for more than one receptor class," <i>Proc. Nat'l Acad. Sci. USA</i> , 85:3435-3439 (1988).			
	AY				HART et al., "Synthesis, Phosphorylation, and Degradation of Multiple Forms of the Platelet-derived Growth Factor Receptor Studied Using a Monoclonal Antibody," <i>J. Biol. Chem.</i> , 262(22):10780-10785 (1987).			
	AZ				HART et al., "Two classes of PDGF Receptor Recognize Different Isoforms of PDGF," <i>Science</i> , 240:1529-1531 (1988).			
	BA				HART et al., "Expression of Secreted Human Immunoglobulin/PDGF-Receptor Fusion Proteins Which Demonstrate High Affinity Ligand Binding," <i>Miami Winter Cancer Symposium</i> (1989).			

Examiner Signature	<i>Jose Salas</i>	Date Considered	11/08/2001
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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>	
Applicant Number	10/027,400		
Filing Date	December 19, 2001		
First Named Inventor	Lewis Thomas Williams		
Group Art Unit	1646		
Examiner Name	Unassigned		
Attorney Docket Number	02307K-026726US		
Sheet	3	of	6

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AA	AA				HAYNES et al., "Constitutive, long-term production of human interferons by hamster cells containing multiple copies of a cloned interferon gene," <i>Nucl. Acids Res.</i> 11(3):687-706 (1983).		X
	BC				HEIDARAN et al., "Chimeric $\alpha$ - and $\beta$ -Platelet-derived Growth Factor (PDGF) Receptors Define Three Immunoglobulin-like Domains of the $\alpha$ -PDGF Receptor That Determine PDGF-AA Binding Specificity," <i>J. Biol. Chem.</i> 265(31):18741-18744.		
	BD				HELDIN et al., "Interaction of Platelet-derived Growth Factor with Its Fibroblast Receptor," <i>J. Biol. Chem.</i> 257(8):4216-4221 (1982).		
	BE				HELDIN et al., "Binding of different dimeric forms of PDGF to human fibroblasts evidence for two separate receptor types," <i>EMBO J.</i> 7(5):1387-1393 (1988).		
	BF				HELDIN et al., "Dimerization of B-type Platelet-derived Growth Factor Receptors Occurs After Ligand Binding and Is Closely Associated With Receptor Kinase Activation," <i>J. Biol. Chem.</i> 264(15):8905-8912 (1989).		
	BG				JACOBS et al., "Isolation and Characterization of Genomic and cDNA Clones of Human Erythropoietin," <i>Nature</i> 313:806-810 (1985).		
	BH				KAPLAN et al., "PDGF $\beta$ -Receptor Stimulates Tyrosine Phosphorylation of GAP and Association of GAP with a Signaling Complex," <i>Cell</i> 61:125-133 (1990).		
	BI				KAZLAUSKAS et al., "Different effects of homo- and heterodimers of platelet-derived growth factor A and B chains on human and mouse fibroblasts," <i>EMBO J.</i> 7(12):3727-3735 (1988).		
	BJ				KAZLAUSKAS et al., "Phosphorylation of the PDGF Receptor $\beta$ Subunit Creates a Tight Binding Site for Phosphatidylinositol 3 Kinase," <i>The EMBO Journal</i> 9:3279-3286 (1990).		
	BK				KEATING et al., "Processing of the Platelet-derived Growth Factor Receptor," <i>J. Biol. Chem.</i> 262(16):7932-7937 (1987).		
	BL				KEATING et al., "Autocrine Stimulation of Intracellular PDGF Receptors in v-si Transformed Cells," <i>Science</i> 239:914-916 (1988).		
	BM				KEATING et al., "Ligand Activation Causes a Phosphorylation-dependent Change in Platelet-derived Growth Factor Receptor Conformation," <i>J. Biol. Chem.</i> 263(26):12805-12808 (1988).		
	BN				KEATING et al., "Platelet-derived Growth Factor Receptor Inducibility is Acquired Immediately After Translation and Does Not Require Glycosylation," <i>J. Biol. Chem.</i> 264(18):9129-9132 (1989).		
	BO				KIMBALL et al., "Epidermal Growth Factor (EGF) Binding to Membranes Immobilize in Microtiter Wells and Estimation of EGF-Related Transforming Growth Factor Activity," <i>Biochimica et Biophysica Acta</i> 771:82-88 (1984).		

Examiner Signature	<i>Jose A. [Signature]</i>	Date Considered	11/08/2001
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Sheet 4 of 6

## Complete if Known

Application Number	10/027,400
Filing Date	December 19, 2001
First Named Inventor	Lewis Thomas Williams
Group Art Unit	1646
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Attorney Docket Number	02307K-026726US

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JS	BP				KORNBLUTH et al., "Novel Tyrosine Kinase Identified by Phosphotyrosine Antibodic Screening of cDNA Libraries," <i>Mol. Cell. Biol.</i> , 8(12):5541-5544 (1988).			
	BQ				KYPTA et al., "Association between the PDGF Receptor and Members of the src Family of Tyrosine Kinases," <i>Cell</i> , 62:481-492 (1990).			
	BR				MARX, "Oncogenes Evoke New Cancer Therapies," <i>Science</i> , 249:1376-1378 (1990).			
	BS				MATSUI et al., "Isolation of a Novel Receptor cDNA Establishes the Existence of Two PDGF Receptor Genes," <i>Science</i> , 243:800-804 (1989).			
	BT				MATSUI et al., "Independent expression of human $\alpha$ or $\beta$ platelet-derived growth factor receptor cDNAs in a naive hematopoietic cell leads to functional coupling with mitogenic and chemotactic signaling pathways," <i>Proc. Natl. Acad. Sci. USA</i> 86:8314-8318 (1989).			
	BU				MORAN et al., "Src homology region 2 domains direct protein-protein interactions in signal transduction," <i>Proc. Natl. Acad. Sci. USA</i> 87:8622-8626 (1990).			
	BV				MORRISON et al., "Direct Activation of the Serine/Threonine Kinase Activity of Raf-1 through Tyrosine Phosphorylation by the PDGF $\beta$ -Receptor," <i>Cell</i> , 58:649-6__ (1989).			
	BW				MORRISON et al., "Platelet-Derived Growth Factor (PDGF) - Dependent Association Phospholipase C- $\gamma$ with the PDGF Receptor Signaling Complex," <i>Mol. Cell. Biol.</i> , 10(5):2359-2366 (1990).			
	BX				NISHIBE et al., "Increase of the Catalytic Activity of Phospholipase C- $\gamma$ 1 by Tyrosine Phosphorylation," <i>Science</i> , 250:1253-1256 (1990).			
	BY				NISTER et al., "A Glioma-Derived PDGF A Chain Homodimer Has Different Function Activities from a PDGF AB Heterodimer Purified from Human Platelets," <i>Cell</i> , 52:791-799 (1988).			
	BZ				ORCHANSKY et al., "Phosphatidylinositol Linkage of a Truncated Form of the Platelet-derived Growth Factor Receptor," <i>J. Biol. Chem.</i> , 263(29):15159-15165 (1988).			
	CA				PERALTA et al., "Primary Structure and Biochemical Properties of an M <sub>2</sub> Muscarinic Receptor," <i>Science</i> , 236:600-605 (1987).			
	CB				QIU et al., "Primary Structure of <i>ckit</i> : relationship with the CSF-1/PDGF receptor kinase family - oncogenic activation of <i>v-kit</i> involves deletion of extracellular domain and C terminus," <i>EMBO J.</i> , 7(4):1003-1011 (1988).			
	CC				REID et al., "Two forms of the basic fibroblast growth factor receptor-like mP are expressed in the developing mouse brain," <i>Proc. Natl. Acad. Sci. USA</i> 87:1596-1600 (1990).			

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Sheet 5 of 6

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JA	CD				RONNSTRAND et al., "Purification of the Receptor for Platelet-derived Growth Factor from Porcine Uterus," <i>J. Biol. Chem.</i> , 262(7):2929-2932 (1987).		
	BE				ROUSSEL et al., "Transforming potential of the c-fms proto-oncogene (CSF-1 receptor)," <i>Nature</i> , 325:549-552 (1987).		
	BF				RUTA et al., "A novel protein tyrosine kinase gene whose expression is modulated during endothelial cell differentiation," <i>Oncogene</i> , 3:9-15 (1988).		
	BG				SEIFERT et al., "Two Different Subunits Associate to Create Isoform-specific Platelet-derived Growth Factor Receptors," <i>J. Biol. Chem.</i> , 264(15):8771-8778 (1989).		
	BH				SMITH et al., "Blocking of HIV-1 Infectivity by a Soluble, Secreted Form of the CD4 Antigen," <i>Science</i> , 238:1704-1707 (1987).		
	BI				ULLRICH et al., "Signal Transduction by Receptors with Tyrosine Kinase Activity," <i>Cell</i> , 61:203-212 (1990).		
	BJ				VAN DER SCHAAL et al., "An Enzyme-Linked Lectin Binding Assay for Quantitative Determination of Lectin Receptors," <i>Anal. Biochem.</i> , 140:48-55 (1984).		
	BK				VAN DRIEL et al., "Stoichiometric Binding of Low Density Lipoprotein (LDL) Monoclonal Antibodies to LDL Receptors in a Solid Phase Assay," <i>J. Biol. Chem.</i> , 264(16):9533-9538 (1989).		
	BL				WILLIAMS et al., "Platelet-derived growth factor binds specifically to receptors on vascular smooth muscle cells and the binding becomes nondissociable," <i>Proc. Natl Acad. Sci. USA</i> , 79:5867-5870 (1982).		
	BM				WILLIAMS et al., "Platelet-derived Growth Factor Receptors Form a High Affinity State in Membrane Preparations," <i>J. Biol. Chem.</i> , 259(8):5287-5294 (1984).		
	BN				WILLIAMS et al., "PDGF Receptors: Structural and Functional Studies," <i>Miami Winter Symposium, ICSU Short Reports</i> , 4:168-171 (1986).		
	BO				WILLIAMS et al., "The Stimulation of Paracrine and Autocrine Mitogenic Pathways by the Platelet-Derived Growth Factor Receptor," <i>J. Cell. Physiol. Suppl.</i> , 5:27-30 (1987).		
	BP				WILLIAMS, "Signal Transduction by the Platelet-Derived Growth Factor Receptor," <i>Science</i> , 243:1564-1570 (1989).		
	BQ				WILLIAMS et al., "The Immunoglobulin Superfamily - Domains for Cell Surface Recognition," <i>Ann. Rev. Immunology</i> , 6:381-405 (1988).		
	BR				WILLIAMS, "Stimulation of Paracrine and Autocrine Pathways of Cell Proliferation by Platelet-Derived Growth Factor," <i>Clinical Research</i> , 36(1):5-10 (1988).		

Examiner Signature

*Jason Haly*

Date Considered

11/08/2004

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	BT				WILLIAMS et al., "Signal Transduction by the Platelet-Derived Growth Factor Receptor," <i>CSH Symp. Quant. Biol.</i> , 53:455-465 (1988).			
	BU				YARDEN et al., "Structure of the receptor for platelet-derived growth factor helps define a family of closely related growth factor receptors," <i>Nature</i> , 323:226-232 (1986).			
	BV				YARDEN et al., "Growth Factor Receptor Tyrosine Kinases," <i>Ann. Rev. Biochem.</i> , 57:443-478 (1988).			

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Examiner Signature	<i>John A. [Signature]</i>	Date Considered	11/08/2004
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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